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**Presented By**  
**WO W.J. Bush, C2PC Project Officer**

PM Ground C2  
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# Agenda

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- 1. Description**
- 2. Program Status**
- 3. Current and Future C2PC Features**
- 4. Near Term Plan**
- 5. Testing**
- 6. Training**
- 7. Requirement Process**
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# Description

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- C2PC is the bridge for all the MAGTF C4ISR systems and the designated Joint Tactical COP Workstation for all Services
  - o COP display and management tool that works with GCCS-based systems
  - o BFSA Tool - can stand alone and work in a low-bandwidth and unreliable communication environment
    - generates and disseminates automated PLI updates
    - works with various tactical radios
  - o Software Foundation - Software Development Kit for an open development environment “Portfolio” of BF applications (Intel, Maneuver, Fire Support, Sensors)



# Program Status

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- **Dec 02** - Joint Configuration Control Board established
- **Jan 03** - C2PC designated as the Joint Tactical COP Workstation
- **Jan 03** - Marine Corps became the Executive Agent
- **Jul 03** - C2PC became a program of record
- **Sep 03** - C2PC 5.9.0.3 fielded to all Services and accepted by DISA in their COE baseline
- **Jan 04** - Patch 6 delivered to MCSC and DISA



## 5.9.0.3 Features

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### **Track Dissemination**

- Improved disconnected ops with GW/MTGW turn-around
- Track subscription filters for smart push of track picture
- Blue PLI Multi-cast support (EPLRS 10.X compatibility) with VMF
- EPLRS to SINGCARS forwarding of VMF K05.1

### **Visualization**

- Commercial mapping products (ESRI Shape file format)
- Overlay enhancements: text labels, more MILSTD-2525B tactical graphics
- All MIL-STD-2525B warfighting symbology

### **Communications**

- VMF message processing with CMP (MCS-TCO interface and DACT messaging)
- VMF Message Wizards for selected messages
- MIL-STD-2045-47001B Support (Compression and S/R)
- Communications SDK for 3<sup>rd</sup> party developer access to C2PC

### **New Software Development Kits (SDKs)**

- Communications and GPS

### **User Interface Enhancements**

- Customizable Menus

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## 6.0 Features

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- **4.x Interoperability (Exchange of tracks and overlays)**
- **Overlay enhancements:** text labels, more MIL-STD-2525B tactical graphics (including MOOTW symbology)
- **Steer To Screen** (AAAV/EFV)
- **Desktop clock w/ local or Zulu time, or both**
- **3D Map with tracks symbols**
- **VMF Enhancements**
- **Address Book GW Plug-In (Address Book Synchronization)**
- **Windows XP Support**
- **Role Based Logon & Profile Mgmt Phase 1**



# 6.1 Features

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- **C/JMTK (Phase 1) - All map rendering via CJMTK**
- **Unit Aggregation for display**
- **Cop Sync Tools (CST) permissions support.**
- **User Roles and Profiles (Phase 2)**
- **Coordinated Development/Fielding of C2PC Injectors**
  - Core DSTB (Terrain Analysis) Injector
  - Fire Plan Sketch Injector
  - FIOP WEEMC Applications (ADOCS- like mission managers)
  - Updated Intel Office Injector for GCCS 4.x
- **Communications**
  - VMF R5 and MIL-STD-2045-47001C Support
  - FBCB2 interoperability (MDP support)
- **MCS Requirements**
  - VMF Message Automation (NBC Messages 3 and 5)
  - USMTF Message Automation (ASAS Interoperability)



# Near Term Plan

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- Life cycle management of 5.9
- Continue 6.0 development based on mission critical requirements, fielding is planned for 4th Qtr 04
- Continue C-JMTK migration effort, partial C-JMTK functionality will be included in 6.1, to be released in 2<sup>nd</sup> Qtr 05
- Conduct local Marine Corps user's conference at the MEFs
- Continue to make liaison with C2PC customers internally and externally as well as the third party developers for C2PC improvement and development
- Work with TECOM on the training aspect





# Testing

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## Contractor

- Application Level Test

## Government

- SPAWAR, Charleston SC Independent Verification & Validation Test
- MCTSSA, Camp Pendleton CA, System of Systems Integration Test



# Training

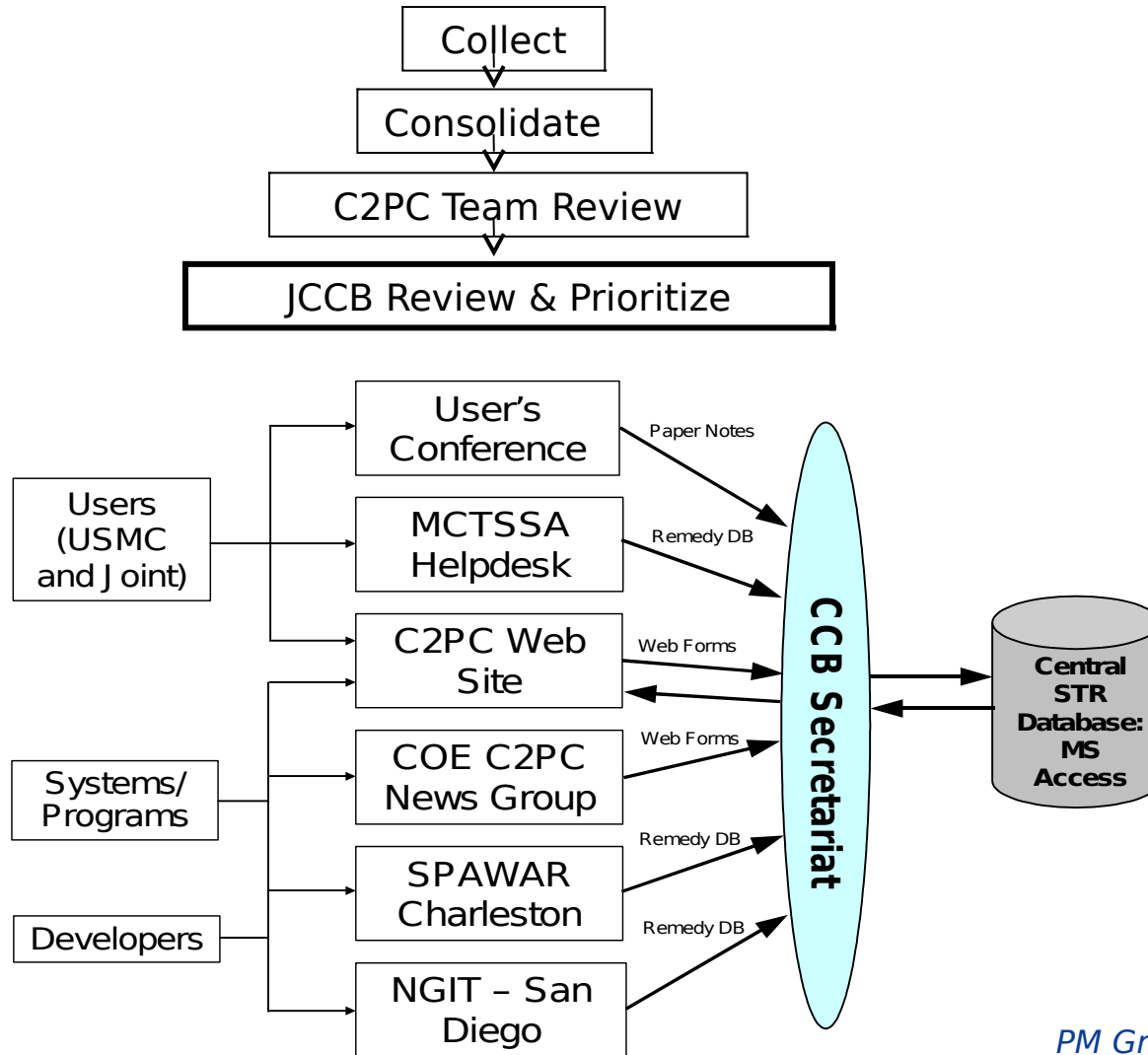
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Marine Corps C2PC training is provided in a variety of forum at different formal and informal school houses.

- Expeditionary Warfare School
- School of Advanced Warfighting
- Command & Control System School
- Expeditionary Warfare Training Group/Atlantic/Pacific
- Navy Marine Corps Intelligence Training Center
- MAGTF Staff Training Program
- MAGTF Integrated Systems Training Centers
- Marine Corps Systems Command Sponsored
- Mobile Training Teams



# Requirement Process





# Configuration Control Board (CCB)

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## Marine Corps CCB

- Usually conducted the day before the JCCB
- Representation consists of GC2, Intel, EFV, and MCWL. We need MCCDC, MCTSSA, and MEFs participation.
- Review, prioritize, and vote on Marine Corps requirements

## Joint CCB

- Usually conducted quarterly on Wed & Thurs, second week of Mar, Jun, Sept, and Dec
- Voting members consist of Marine Corps, Army, Navy, Air Force, Coast Guard, DISA, and SOCOM
- CCB primary responsibilities are review, prioritize, and vote on existing and new requirements from all Services



# Points Of Contact

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## **PG 12 - C2PC Project Officer**

**WO W.J. Bush, 703 432 4288, [bushwj@mcsc.usmc.mil](mailto:bushwj@mcsc.usmc.mil)**

## **PG 12 - Ground C2 Lead Engineer**

**Mr. Ed DeVilliers, 703 432 3085,  
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# POC Continued

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## Support Contractors

### **Northrop Grumman Mission Systems**

Mr. Mike Drennan  
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703 432 4269  
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### **Titan Corporation**

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# POC Continued

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## **Software Development Team**

### **Northrop Grumman Mission Systems, San Diego CA**

Mr. Ed Constantine – Program Manager  
(858) 621-5401, [ed.constantine@ngc.com](mailto:ed.constantine@ngc.com)

Mr. Ken Newman – Software Lead  
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Mr. Kris Brawn – Technical Lead  
(858) 621-5463, [kris.brawn@ngc.com](mailto:kris.brawn@ngc.com)



# Helpful Websites

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## **MCTSSA - HelpDesk**

**Toll Free: (800) 808-7634**

**COM: (760) 725-0533; DSN: (312) 365-0533**

**NIPRNET: [c4i.helpdesk@mctssa.usmc.mil](mailto:c4i.helpdesk@mctssa.usmc.mil)**

**SIPRNET: <http://www.mctssa.usmc.mil>,  
[helpdesk@mctssa.usmc.mil](mailto:helpdesk@mctssa.usmc.mil)**

## **C2PC Homepage**

**<https://tacmobile.spawar.navy.mil>**

## **MARCORSYSCOM Website**

**<http://www.marcorsyscom.usmc.mil>**